

June 20, 2019

Mr. David Thebearge **Boston Concrete Corporation**706 Broadway St.

Lowell, MA 01854

Re: <u>NPDES Quarterly Stormwater Visual Examination Report and Quarterly Benchmark Results</u>

Dear Mr. David Thebearge,

Enclosed please find the Stormwater Visual Examination Report, Analytical Reports and associated Chain of Custody documentation for Boston Concrete in Lowell, MA. This site was visited on June 2, 2019. Quarterly benchmark samples were also collected at this time. Please call me if you have any questions or require any additional information. Thank you.

Sincerely,

John D'Andrea

Division Manager – Environmental Monitoring



EST Associates, Inc. 51 Fremont Street Needham, MA 02494 Phone (781) 455-0003

Container Type
P - Plastic

Chain of Custody Record

Laboratory:

Alpha Analytical Labs (508) 898-9220

nts: thebearge@bost	Sampler's Name (Print)					Outfall 001	Identification)	LOCATION (Sample	Description: Quarterly Benc	Phone #: (978) 937-7222			Audiess: 706 Broadway St.			יים סכומנפט, זווכ.	And The Control of th	
onconcrete.com & jdar	nafino				6.	I.	S	Sample Con	Quarterly Benchmark Sampling		ge	MA 01854-		te Corporation		www.estassociates.com	Phone (781) 455-0003 Fax (781) 455-8336	Needham, MA 02494
6/2/18 drea@estassociates					P 1	1 60	#	Container Sampling										
0					None	HNO3	Time *			Phone #: (978) 937-7222	Contact: David T	Lowell	Address: 706 Bro	Client: Boston		oria	P - Plastic 1. W G - Glass 2. Gr	Container Type
1 MAN TENNSFERS RELIMQUISHED BY 2 3					TSS	Fe	Laboratory Analysis			37-7222	David Thebearge	MA 01854-	706 Broadway St.	Boston Concrete Corporation		4. Drinking Water	tewater indwater	Sample Type
TRANSFERS ACCEPTED BY							/ Analysis						Signed	7222-Q#-00 O# SON0316	FST Invoice To Boston C	- Topole 10.	Lab Invoice To: EST See Comments	
DATE TIME (-)-1) 1/2 ς							Notes		Day rumaround	7			0	00			ments	0,000,0220

*All samples chilled to 4 degrees celsius.

G 4

Storm Water **Quaterly Visual Examination Report**

Boston Concrete	e - Lowell, MA
Facility Name: Boston Concrete	
Date / Time: 6/2/19 1800	Personnel Involved: Matt, Caul
Outfall: 00	Date of Last Rainfall: 5/28/19
Amount of Rain (inches) / 49	Duration of Storm: 7 haves
Nature of Discharge (Runoff or Snowmelt or Both	1): Runoff
Record your visual observations of the sam	ple quality in the space provided below.
Color: Livey	
Odor: None detectel	=
Clarity: Hazy	
Floating Solids: None detected	
Settled Solids: Fine Sand Sitt	
Suspended Solids: Fine particulate	
Foam: None detected	
Oily Sheen: None detected	
Other Observations: No obvious souve	of pollution
Sources of Pollution / Fo	ollow up Inspections:

Identify potential sources of pollution identified above and results of follow up inspections (follow up inspections must be performed to trace any sources of pollution identified here)



ANALYTICAL REPORT

Lab Number:

L1923411

Client:

EST Associates, Inc.

51 Fremont Street

Needham, MA 02494

ATTN:

John D'Andrea

Phone:

(781) 455-0003

Project Name:

BOSTON CONC. QRTLY BENCHMARK

Project Number:

BOSTON CONCRETE CORP

Report Date:

06/10/19

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019 508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: BOSTON CONC. QRTLY BENCHMARK

Lab Number: L1923411 Project Number: BOSTON CONCRETE CORP Report Date: 06/10/19

Alpha Sample ID Sample Location Collection Date/Time

Receive Date Client ID Matrix L1923411-01 OUTFALL 001 WATER 706 BROADWAY ST., LOWELL, MA 06/02/19 18:00 06/03/19

Project Name: Project Number: BOSTON CONC. QRTLY BENCHMARK

BOSTON CONCRETE CORP

Lab Number:

L1923411

Report Date:

06/10/19

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Haile Amita Naik

Authorized Signature:

Title: Technical Director/Representative

Date: 06/10/19

METALS



Project Name: BOSTON CONC. QRTLY BENCHMARK

Lab Number:

L1923411

Project Number:

BOSTON CONCRETE CORP

Report Date:

06/10/19

SAMPLE RESULTS
Lab ID: L1923411-01

Date Collected:

06/02/19 18:00

Client ID:

OUTFALL 001

Date Received:

06/03/19

Sample Location:

706 BROADWAY ST., LOWELL, MA

Field Prep:

Not Specified

Sample Depth:

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - N	lansfield Lab										
Iron, Total	13.2		mg/l	0.050		1	06/08/19 11:3	0 06/10/19 14:1	8 EPA 3005A	19,200.7	LC

Project Name: BOSTON CONC. QRTLY BENCHMARK

Project Number: BOSTON CONCRETE CO

Lab Number:

L1923411

Report Date:

06/10/19

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	
Total Metals - Ma	insfield Lab for sample(s):	01 Batch	n: WG1	245894-	1				
Iron, Total	ND	mg/l	0.050		1	06/08/19 11:30	06/10/19 12:20	19,200.7	LC
		,	Pron Inf	ormatio	n				

Digestion Method: EPA 3005A



L1923411

Lab Control Sample Analysis Batch Quality Control

BOSTON CONC. QRTLY BENCHMARK

Project Name: Project Number: BOSTON CONCRETE CORP Lab Number:

Report Date: 06/10/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Total Metals - Mansfield Lab Associated sar	mple(s): 01 Batch:	WG12458	394-2						
Iron, Total	103		-		85-115	-			



Matrix Spike Analysis Batch Quality Control

Project Name:

BOSTON CONC. QRTLY BENCHMARK

Project Number: BOSTON CONCRETE CORP

Lab Number:

L1923411

Report Date:

06/10/19

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qua	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield La	ab Associated sam	ple(s): 01	QC Batch	ID: WG124589	4-3	QC Sample	L1922513-01	Clien	t ID: MS Sa	ample		
Iron, Total	6.88	1	7.65	77		š			75-125			20
Total Metals - Mansfield La	ab Associated sam	ple(s): 01	QC Batch	ID: WG124589	4-7	QC Sample:	L1922630-01	Clien	t ID: MS Sa	ample		
Iron, Total	ND	1	1.08	108			(*)		75-125	•		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: BOSTON CONC. QRTLY BENCHMARK

Lab Number:

L1923411 06/10/19

Project Number:	BOSTON CONCRETE CORP	Report Date:	00/

Parameter	Native Sample	Duplicate Sample	<u>Units</u>	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG124589	4-4 QC Sample:	L1922513-01	Client ID:	DUP Sample	
Iron, Total	6.88	6.97	mg/l	1		20
Total Metals - Mansfield Lab Associated sample(s): 01	QC Batch ID: WG124589	4-8 QC Sample:	L1922630-01	Client ID:	DUP Sample	
Iron, Total	ND	ND	mg/l	NC		20

INORGANICS & MISCELLANEOUS



Project Name:

BOSTON CONC. QRTLY BENCHMARK

Lab Number:

L1923411

Project Number:

BOSTON CONCRETE CORP

Report Date:

06/10/19

SAMPLE RESULTS

Lab ID:

L1923411-01

Date Collected:

06/02/19 18:00

Client ID:

OUTFALL 001

Date Received:

06/03/19

Sample Location: 706 BROADWAY ST., LOWELL, MA

Field Prep:

Not Specified

Sample Depth:

Matrix:

Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - V	Vestborough Lab									
Solids, Total Suspended	830		mg/l	25	NA	5	-	06/04/19 14:35	121,2540D	DR



Project Name:

BOSTON CONC. QRTLY BENCHMARK

Lab Number:

L1923411

Project Number: BOSTON CONCRETE CORP

Report Date:

06/10/19

Method Blank Analysis Batch Quality Control

Parameter	Result Qı	ualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry -	Westborough Lab	for sam	ple(s): 01	Batch:	WG12	244244-1				
Solids, Total Suspended	ND		mg/l	5.0	NA	1	-	06/04/19 14:35	121,2540D	DR



Lab Duplicate Analysis
Batch Quality Control **Project Name:** BOSTON CONC. QRTLY BENCHMARK

Lab Number: Report Date:

L1923411 06/10/19

Project Number: BOSTON CONCRETE CORP

Native Sample Duplicate Sample RPD

RPD Limits

Qual Units General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1244244-2 QC Sample: L1923411-01 Client ID: OUTFALL 001 29 Solids, Total Suspended 1

Serial_No:06101915:48 *Lab Number:* L1923411

Report Date: 06/10/19

Project Name:BOSTON CONC. QRTLY BENCHMARKProject Number:BOSTON CONCRETE CORP

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal
A Absent

Container Info	ormation Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1923411-01A	Plastic 250ml HNO3 preserved	Α	<2	<2	4.0	Υ	Absent		FE-UI(180)
L1923411-01B	Plastic 950ml unpreserved	Α	7	7	4.0	Υ	Absent		TSS-2540(7)

Project Name:

BOSTON CONC. QRTLY BENCHMARK

Lab Number:

L1923411

Project Number:

BOSTON CONCRETE COR

Report Date:

06/10/19

GLOSSARY

Acronyms

DL

- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL

- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC

- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA

- Environmental Protection Agency

LCS

 - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD

- Laboratory Control Sample Duplicate: Refer to LCS.

LFB

 - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD

- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ

- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL

- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS

- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA

- Not Applicable.

NC

- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI

- Not Ignitable.

NP

- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL

- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD

- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM

- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

associated

STLP

- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF TEO - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF

TEQ

Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC

- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report



Project Name: BOSTON CONC. QRTLY BENCHMARK Lab Number: L1923411

Project Number: BOSTON CONCRETE COR Report Date: 06/10/19

 The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A Spectra identified as "Aldol Condensation Product".
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the reporting limit (RL) for the sample.
- NJ Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R Analytical results are from sample re-analysis.
- $RE\ -$ Analytical results are from sample re-extraction
- S Analytical results are from modified screening analysis.

Report Format: Data Usability Report



Project Name:

BOSTON CONC. QRTLY BENCHMARK

Lab Number:

L1923411

Project Number:

BOSTON CONCRETE CORP

Report Date:

06/10/19

REFERENCES

19 Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 12

Published Date: 10/9/2018 4:58:19 PM Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: lodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-

Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1; Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. **EPA 522.**

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



EST Associates, Inc. 51 Fremont Street Needham, MA 02494 Phone (781) 455-0003 Fax (781) 455-8336 www.estassociates.com

Chain of Custody Record

Container Type	e Samp	le Type				
P - Plastic	1. Wastewater	5. Surfa	ce Water	Lab Invoice To:	EST	
G - Glass	2, Groundwater	6. Storn	n Water	Lab Report To:	See Comments	
V - VOA	3. Soil	7. Other	-	Lao Report To:		
B - Bacteria	4. Drinking Water	ř				
				EST Involce To:	Boston Concrete	
					7222-Q#-00	
Client:	Boston Concrete	Corpo	ration		Q# SQ00316	
Address:	706 Broadway S	t.			Signed	
	Lowell	MA	01854-			

Laboratory:

Alpha Analytical Labs (508) 898-9220

Rush _____Day Turnaround

Site: Boston Concrete Corporation

Address: 706 Broadway St.

Lowell

01854-

MA

Contact: David Thebearge

Phone #: (978) 937-7222

Contact: David Thebearge

Phone #: (978) 937-7222

Description: Quarterly Bend	chmark Sa	mpling				<u>Fa</u>	x #:					
LOCATION (Sample	Sample	Container				pling	Preservative		Laboratory Analysis		Notes	
Identification)	Туре	Size	Туре	#	Date	Time		-				
Outfall 001	6	250 ml	Р	1	6/2	1550	WHN	103	Fe			
Outfall 001	6	1L	Р	1	U	V		ne	TSS			
								~				
Sampler's Name (Print) 5	ignature				DATE	TIME	AH IMDED	TOANG	FERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
Most Cron R 1	1/17/	4-			DATE 12/18		1	W//	A RELINGUISHED BY	THE ADL	63-17	1725
Additional Comments:							2	11/2	4	lunch	2319	18%
Send reports to: dthebearge@bosto	nconcrete.co	om & jdar	idrea@	esta	issociate	s.com	3					
							4					
*All samples chilled to 4 degrees celsius.												

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